DOCUMENT RESUME

ED 191 515 JC 800 417

AUTHOR Kohl, Peggy L.: And Others
TITLE Relationship Between Student Tuition/Fees and Student Enrollments in Illinois Public Community College Districts FY 1971 through 1979.
INSTITUTION Illinois Community Coll. Board, Springfield.
PUB DATE 30 Jun 80
NOTE 19p.: Appendices were deleted due to irreproducibility. Tables with small type may not reproduce well

EDRS PRICE MF01/PC01 Plus Postage.
DESCRIPTORS *Community Colleges: Correlation: *Enrollment Influences: *Enrollment Trends: Full Time Equivalency: *Instructional Student Costs: State Colleges: State Surveys: Tables (Data): Tuition: Two Year Colleges
IDENTIFIERS *Illinois

ABSTRACT

Student headcount and full-time equivalent (FTE) enrollments for the Illinois public community colleges during the nine-year period from 1971 through 1979 were examined along with tuition and fee changes in both actual and constant dollars to determine if a significant statistical relationship existed between changes in enrollment and changes in tuition and fees. The study involved the application of statistical correlation analyses to the data, which were collected from Fall, 10th-day enrollment figures and from annual financial reports compiled by the Illinois Community College Board. Major findings reveal that FTE enrollments at the colleges increased by 51.3% during the study period and that tuition and fees, in terms of constant dollars, rose by only 4.3%. Results of the correlation analysis, based on computations of the Pearson R statistic, yielded no significant relationship between changes in student enrollment and changes in real or constant tuition/fee charges for any of the Illinois community colleges or for the state system as a whole. The study report details methodology, presents summary conclusions, and summarizes findings on a series of data tables and plot graphs. (JP)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED191515

Illinois Community College Board

RELATIONSHIP BETWEEN STUDENT TUITION/FEES AND STUDENT ENROLLMENTS IN ILLINOIS PUBLIC COMMUNITY COLLEGE DISTRICTS FY 1971 THROUGH FY 1979

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Fred Wellman

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

JC 800417

Illinois Community College Board
3085 Stevenson Drive
Springfield, Illinois 62703
Telephone: (217) 786-6000

June 30, 1980
(D-200)

Illinois Community College Board

RELATIONSHIP BETWEEN STUDENT TUITION/FEES AND STUDENT ENROLLMENTS IN ILLINOIS PUBLIC COMMUNITY COLLEGE DISTRICTS FY 1971 THROUGH FY 1979

Table of Contents

	Page
Preface	v
Introduction	1
Purposes of the Study	1
Research Methodology	2
Limitations of the Study	2
Summary of the Findings	3
Conclusions	5
Appendix A - Comparison of Student Headcount and FTE Enrollments and Student Tuition and Fee Charges (In Actual and Constant Dollars) FY 1971 to FY 1975, FY 1975 to FY 1979 and FY 1971 to FY 1979 for Each Public Community College District in Illinois -- Tables 5-8	10
Appendix B - Statistical Correlation Plot Charts of the Changes in Student Tuition and Fees in Actual and Constant Dollars to the Changes in Headcount and FTE Enrollment for all Community College Districts in Illinois from FY 1971 through FY 1979 -- Charts 1-8	19
Appendix C - Tuition and Fees as Reported by the Illinois State Scholarship Commission for Public Universities from FY 1971 to FY 1979 -- Table 9	28
Appendix D - Historical Data Utilized in Study -- Tables 10-21	30

Page

Table 1 Comparison of Headcount Enrollment and Student Tuition and Fee Charges FY 1971 to FY 1975 and FY 1975 to FY 1979 and FY 1971 to FY 1979..... 6

Table 2 Measure of Statistical Relationship Between the Changes in Student Tuition and Fees in Both Actual and Constant Dollars and the Changes in Student Headcount and FTE Enrollment for Each Illinois Public Community College District for All Years FY 1971 Through FY 1979..... 7

Table 3 Measure of Statistical Relationship Between the Changes in Student Tuition and Fees in Actual and Constant Dollars and the Changes in Student Headcount and FTE Enrollment for Each Year from FY 1971 Through FY 1979 for All Community College Districts..... 8

Table 4 Measure of Statistical Relationship (Correlation by Pearson R) Between Student Enrollment and Tuition and Fee Variables (FY 1971 to FY 1979) for Statewide Illinois Public Community College Averages..... 9

Table 5 Comparison of Student Headcount Enrollment and Tuition and Fee Charges (in Actual Dollars) FY 1971 to FY 1975, FY 1975 to FY 1979, and FY 1971 to FY 1979 for Each of the Public Community College Districts in Illinois..... 11

Table 6 Comparison of Student FTE Enrollment and Tuition and Fee Charges (in Actual Dollars) FY 1971 to FY 1975, FY 1975 to FY 1979, and FY 1971 to FY 1979 for Each of the Public Community College Districts in Illinois..... 13

Table 7 Comparison of Student Headcount Enrollment and Tuition and Fee Charges (in Constant Dollars) FY 1971 to FY 1975, FY 1975 to FY 1979, and FY 1971 to FY 1979 for Each of the Public Community College Districts in Illinois..... 15

Table 8 Comparison of Student FTE Enrollment and Tuition and Fee Charges (In Constant Dollars) FY 1971 to FY 1975, FY 1975 to FY 1979, and FY 1971 to FY 1979 for Each Public Community College District in Illinois..... 17

Chart 1 Correlation Plot Chart of the Dollar Change in Student Tuition and Fee Charges (Actual) to the Number Change in Student Headcount Enrollment for all Community College Districts in Illinois from FY 1971 Through FY 1979..... 20

Chart 2 Correlation Plot Chart of the Dollar Change in Student Tuition and Fee Charges (Actual) to the Number Change in FTE Enrollment for All Community College Districts from 1971 Through 1979..... 21

Chart 3 Correlation Plot Chart of the Dollar Change in Student Tuition and Fee Charges (Constant) to the Number Change in Headcount Enrollment for All Community College Districts from FY 1971 Through FY 1979..... 22

Page

Chart 4 Correlation Plot Chart of the Dollar Change in Student Tuition and Fee Charges (Constant) to the Number Change in FTE Enrollment for All Community College Districts from FY 1971 Through 1979..... 23

Chart 5 Correlation Plot Chart of the Percent Change in Student Tuition and Fee Charges (Actual) to the Percent Change in Headcount Enrollment for All Community College Districts from FY 1971 Through FY 1979..... 24

Chart 6 Correlation Plot Chart of the Percent Change in Student Tuition and Fee Charges (Actual) to the Percent Change in FTE Enrollment for All Community College Districts from FY 1971 Through FY 1979..... 25

Chart 7 Correlation Plot Chart of the Percent Change in Student Tuition and Fee Charges (Constant) to the Percent Change in Headcount Enrollment for All Community College Districts from FY 1971 Through FY 1979..... 26

Chart 8 Correlation Plot Chart of the Percent Change in Student Tuition and Fee Charges (Constant) to the Percent Change in FTE Enrollment for All Community College Districts from FY 1971 Through FY 1979..... 27

Table 9 Student Tuition and Fees Per Credit Hour as Reported by the Illinois State Scholarship Commission for Illinois Public Universities from FY 1971 to FY 1979..... 29

Table 10 10th Day Student Headcount Enrollment in Illinois Public Community Colleges Fall 1970 Through Fall 1978..... 31

Table 11 Number Change in Student Headcount Enrollment for Each Illinois Public Community College Fall 1970-71 Through Fall 1977-78..... 32

Table 12 Percent Change in Student Headcount Enrollment for Each Illinois Public Community College Fall 1970-71 Through Fall 1977-78..... 33

Table 13 10th Day Student FTE Enrollment in Illinois Public Community Colleges Fall 1970 Through Fall 1978..... 34

Table 14 Number Change in Student FTE Enrollment for Each Illinois Public Community College Fall 1970-71 Through Fall 1977-78.. 35

Table 15 Percent Change in Student FTE Enrollment for Each Illinois Public Community College Fall 1970-71 Through Fall 1977-78.. 36

Table 16 Tuition and Fee Charges (in Actual Dollars) for Each Public Community College in Illinois FY 1971 Through FY 1979..... 37

Table 17 Dollar Change in Tuition and Fee Charges (in Actual Dollars) for Each Public Community College in Illinois FY 1971 Through FY 1979..... 38

Page

Table 18 Tuition & Fee Costs (in Constant Dollars) for Each Public Community College in Illinois FY 1971 Through FY 1979..... 39

Table 19 Tuition and Fee Charges (in Actual Dollars) for Each Public Community College in Illinois FY 1971 Through FY 1979..... 40

Table 20 Dollar Change in Tuition and Fee Charges (in Constant Dollars) for Each Public Community College in Illinois FY 1971 Through FY 1979..... 41

Table 21 Percent Change in Tuition & Fee Costs (in Constant Dollars) for Each Public Community College in Illinois FY 1971 Through FY 1979..... 42

PREFACE

Since community colleges had a period of rapid growth in enrollments prior to FY 1975 and stabilized enrollments after that period and since student tuition and fee charges have continued to rise, it was essential to analyze whether or not these charges could be a major factor in influencing students to attend a community college. This paper will be addressing this issue.

The Illinois Community College Board (ICCB) staff analyzed the relationship between student tuition and fee charges and student enrollments in the public community colleges of Illinois during the past nine years in an attempt to determine whether increasing tuition levels were having a negative impact on community college enrollments. The possible impact of student tuition and fee charges on student enrollments is not only of concern to the ICCB but to the individual community colleges and to various state agencies, such as the Illinois Board of Higher Education (IBHE). The IBHE has issued several position papers recently which deal with the impact of tuition and fee charges on student access and choice as well as enrollments.

Data utilized to conduct this study for the nine-year period under consideration (FY 1971 through FY 1979) were obtained from reports and records in the ICCB Office. The data used consisted of both student headcount and full-time equivalent (FTE) enrollments and student tuition and fee charges in both actual and constant dollars and was distributed by district as well as by statewide total.

Although this study was designed to measure the degree of the relationship between tuition/fees and enrollments, a correlational analysis does not determine a cause and effect relationship. It is recognized that although many other factors (such as the economy, the number of high school graduates, university admission, student financial aid, and the general establishment of new and expanded community colleges) did impact community college enrollments, these were not taken into consideration in this study. It is recommended that further study of these other factors be made before a conclusion is drawn about the cause and effect of tuition/fees on enrollments.

Peggy L. Kohl
Assistant Director for
Research Services

Ivan J. Lach
Associate Director for
Planning/Research/MIS Services

Fred L. Wellman
Executive Director

Introduction

In Illinois, the student headcount enrollment in the public community colleges increased 126.2% from FY 1971 to FY 1979 while student FTE (full-time equivalent) enrollment increased 51.3%. However, the increases in enrollment started to level off after FY 1975 as is evident in the 0.4% increase in headcount enrollment and 2.3% decrease in FTE enrollment for Fall 1979. For the same period of time (FY 1971 to FY 1979) the tuition and fee charges in actual dollars rose 76%. However, if we consider the inflation factor and calculate tuition and fees in constant 1971 dollars, tuition and fees only increased 4.3% for the same period of time.

According to the Carnegie Commission on Higher Education, tuition charges have increased more rapidly than student costs in the public sector due largely to the fact that state governments have been under increased pressure from competing claimants in non-educational sectors for state revenues. Local taxpayers have also been reluctant in recent years to continually increase property taxes for community colleges in many parts of Illinois.

Financial support for Illinois public community colleges is shifting from local districts to the state and, through increased tuition and fees, to the student. It is inevitable that with increased charges due to inflation it will be virtually impossible for community colleges to recover from reductions in state and local financial support without raising tuition and fee charges.

According to the Illinois Board of Higher Education Report on the Impact of Cost on Enrollments in Post-Secondary Education, numerous empirical studies suggest that cost has an impact on decisions to attend or not attend college and on which institutions to attend. However, the results of these studies generally suggest that factors other than cost are quite significant and that the impact of cost is relatively small.

Michael McPhearson, in his report entitled, "The Demand for Private Higher Education," Public Policy and Private Higher Education, printed by Brookings Institute in 1978, argued that the detrimental effect of increased tuition charges on enrollment is frequently overstated. He continued by saying that while tuition is increasing, the ability to pay also increases at approximately the same level. He believes the effects of tuition must be assessed in relation to other influences on enrollment.

Purposes of the Study

The primary purpose of this study was to determine if the student tuition and fee levels are significantly related to community college student enrollment. Enrollments have been declining in some of the Illinois public community colleges in the last few years; hence, there was a need to examine the possible effect of the increasing student tuition and fee charges on declining enrollments. The following is a listing of major objectives of the study:

1. To identify the community college student headcount and full-time equivalent (FTE) enrollment by district and statewide totals from FY 1971 through FY 1979.

2. To identify student tuition and fee charges (in both actual or current and constant or adjusted dollars) by community college district and statewide averages from FY 1971 through FY 1979.

3. To show the relationship (correlation) between student enrollments and tuition and fee charges (in actual and in constant dollars) by district and by statewide totals for each college from FY 1971 through FY 1979.

4. To correlate (show the relationship between) student enrollments and the tuition and fee charges (in actual and constant dollars) by district and statewide averages for each year from FY 1971 through FY 1979.

Research Methodology

Historical data, which included fall 10th day student headcount enrollment, fall 10th day student FTE enrollment, the number change in headcount, the number change in FTE, the percent change in both headcount and FTE, tuition and fee charges in actual (current) dollars as well as constant (adjusted) dollars, the dollar change in tuition and fees in both actual and constant dollars, and the percent change in tuition and fees in both actual and constant dollars, were compiled for each community college for the period FY 1971 through FY 1979 (see Appendix D for detailed tables). Data for actual tuition and fee charges were taken from past years' ICCB Operating Finance Reports which reported the tuition and fee charges from data obtained from the Illinois State Scholarship Commission report for each community college. In order to get a better perspective as to what tuition and fee charges would be without the inflation factor, the charges were calculated for each community college in constant (adjusted) 1971 dollars for the period 1970-71 to 1978-79. In buying power, this would mean that what cost $10 in 1971 would cost approximately $17 in 1979. The index used to adjust for the changing value of the dollar over time is based on the Higher Education Price Index which is published by the National Institute of Education.

A statistical analysis was performed to measure the relationship between data pertaining to the changes in student headcount and FTE enrollments and the changes in student tuition and fee charges in both actual and constant dollars. This analysis which used the Pearson R correlation determined if a significant statistical relationship existed between changes in enrollments and changes in tuition and fees.

Correlations were computed for all community colleges for each year for FY 1972 through FY 1979 as well as for each community college for all years (FY 1972 through FY 1979). Thus, the FY 1972 correlation is based on changes between FY 1971 and FY 1972. A correlation was also done between the variables on the statewide averages for the years FY 1972 through FY 1979.

Limitations of the Study

This analysis is limited to determining the relationship that exists between tuition/fees and enrollment but does not determine the cause and effect. In other words, even if this analysis revealed that increases in tuition/fees relate highly to decreased enrollments it could not be concluded that the reason for the decreased enrollments was the increase in tuition/fees. The decreased enrollments may well have been caused by other factors, such as the decreased number of high school graduates or decreased unemployment rates.

Summary of the Findings

Student enrollments (both headcount and full-time equivalent) by district and statewide totals were compiled and analyzed for the period of time from FY 1971 through FY 1979 (see Tables 10 through 15 in Appendix D for details). This data shows that statewide both headcount and FTE enrollments peaked in FY 1975 and have remained relatively stable since then. However, in looking at individual college data there may be great fluctuations from year to year.

In Illinois, the student headcount enrollment in community colleges increased 126.2% from FY 1971 to FY 1979 while FTE enrollment increased 51.3% statewide (see Tables 5 and 8 in Appendix A). When analyzing individual colleges for the same period of time, the headcount enrollment changes ranged from a decrease of 19.6% to an increase of 1155.4%. The FTE enrollment changes ranged from no change to an increase of 624.8% from FY 1971 to FY 1979.

Student tuition and fee charges (in both actual and constant dollars) were compiled utilizing the ICCB Operating Finance Reports for each community college district as well as the statewide average from FY 1971 through FY 1979 (see Tables 16 through 21 in Appendix D for further information). In looking at the data, in FY 1972 and FY 1977 tuition and fee charges experienced the largest increases (17%) statewide. Tuition and fee charges in constant dollars peaked in FY 1972 with an 11% increase over the FY 1971 charges. Only one college has actually decreased tuition and fee charges during the nine-year time period being analyzed.

For the same period of time (FY 1971 through FY 1979), the tuition and fee charges in actual dollars rose 76% while the charges in constant dollars rose only 4.3%. When analyzing the tuition and fees in actual and constant dollars by individual college from FY 1971 to FY 1979, the percent of change in actual dollars ranged from a low of 8.8% to a high of 1427.8%, while the percent change in constant dollars ranged from a decrease of 35.5% to an increase of 805.6%.

Table 1 shows the five highest and five lowest tuition and fee charges (in actual dollars) in the public community colleges in Illinois during FY 1979. Also included is a comparison of those colleges' headcount enrollment and tuition and fee charges for FY 1979 with FY 1971 and FY 1975. The percent change in enrollment and tuition and fees (in actual dollars) between FY 1971 and FY 1975 and FY 1975 to FY 1979 as well as FY 1971 to FY 1979 is also shown. It is interesting to note that all five colleges with high tuition and fee charges show steadily increasing enrollments. Of the five colleges with low tuition and fee charges, one showed decreasing enrollment but significantly increased tuition and fees. It should be noted that two of the colleges with lowest tuition and fees during FY 1979 did not have tuition and fee charges during FY 1971 although they were in existence at that time. Therefore, the percent change in tuition and fees from FY 1971 to FY 1979 is substantial.

In order to determine if a significant relationship existed between the changes in student tuition and fee charges and the changes in student headcount and FTE enrollments, a Pearson R statistical correlation was run on the data. If the correlation equaled a +1.00, this would mean the relationship between the variables was the strongest possible positive correlation. If the correlation equaled zero, this would indicate no relationship; and a -1.00 would show the strongest possible negative relationship. A statistical correlation of +0.50/-0.50 or more usually shows some significant statistical correlation depending upon the number of "cases" involved.

Table 2 shows the measure of relationship (correlation) between the changes in student tuition and fee charges (both in actual and in constant dollars) and the changes in student headcount and FTE enrollment for each community college district for all years (FY 1971 through FY 1979). The results show a very low negative correlation between tuition and fee change and the enrollment change for the Illinois public community colleges between FY 1971 and FY 1979 and, therefore, no statistical inference can be made.

Table 3 presents the measure of relationship (correlation) between the changes in student tuition and fee charges (both in actual and constant dollars) and the changes in student enrollment for each community college district for each year from FY 1972 through FY 1979 for all community colleges. No significant relationship was in evidence. As can be seen, most of the correlations were very low and slightly negative.

In looking at the measure of relationship between the variables from FY 1971 to FY 1979 for statewide averages (Table 4), all correlations were extremely low and all but one are slightly negative. Therefore, no statistical significance can be found statewide between the changes in student enrollment (headcount and FTE) and the changes in student tuition and fee charges for this particular period of time. It should be noted that there was no significant statistical difference between the correlation of tuition and fee charges in actual dollars and tuition and fees in constant dollars.

Correlation plot charts were created through the ICCB Management Information System which show the correlation of the changes in student enrollment (headcount and FTE) to the changes in tuition and fee charges for all community college districts for all years from FY 1971 through FY 1979 (see Appendix B for details). A plot chart presents the data being correlated for each district for each year (observation). On each chart every community college district would have a point plotted for each year's data in an eight-year period. For example, Chart 1 in Appendix B shows the correlation plot chart of the dollar change in student tuition and fee charges (actual) to the number change in student headcount enrollment for all community college districts in Illinois from FY 1971 through FY 1979. It should be noted that each observation (data for one district for one year) reflects a letter code, A = 1 observation or district , B = 2 observations or districts...Z = 26 observations or districts. If a B is shown on the chart, this may show one of three things: 1) two different community college districts have the same changes in the data for a given or single year; 2) two different community college districts have the same changes in data for two different years; or (3) a single college district has the same changes in data for two different years. As can be seen in Chart 1, the letter codes range from A-Z with Z equaling 26 observations. Thirty-five observations were hidden in this particular chart. This means that if the chart were three dimensional that 35 more observations or points could be seen under the Z letter code. The correlation for this particular plot chart is .01 which means that most of the observations were on or very near to zero and, therefore, no statistical relationship is in evidence.

In order to see how the Illinois community colleges' student tuition and fee charges compare to the Illinois public universities, tuition and fees were calculated for each public university in Illinois using data obtained from the Illinois State Scholarship Commission for public universities from FY 1971 to FY 1979 (see Table 8 in Appendix C for the distribution). Although some community college districts may charge more than the public universities during a given year, statewide averages show that the public universities have substantially greater tuition and fee charges than the public community colleges (65.2% more in FY 1979 alone).

Conclusions

The results of the correlational analysis which was conducted on the student enrollment and tuition/fee data showed no significant relationship between the changes in student enrollment and the changes in student tuition and fee charges (either in actual dollars or in constant dollars for the Illinois public community college districts between FY 1971 and FY 1979). The data were analyzed in several different ways and the correlational analysis of the data revealed the following results:

1. There was no significant relationship between changes in student enrollment and changes in tuition and fee charges for all community colleges in Illinois for the eight-year period from FY 1971 through FY 1979.

   There was no significant relationship between the changes in student enrollment and changes in tuition and fee charges for all of the public community college districts for any single year for which data were available from FY 1971 through FY 1979.

2. There was no significant relationship between changes in student enrollment and changes in student tuition and fees either in actual dollars or when the tuition and fees were adjusted to constant dollars to take into account the inflation rate.

The results of this correlational analysis showed that tuition and fee levels in Illinois were not one of the primary factors that impacted student enrollments during the past eight years. The results of this analysis revealed that tuition and fees increased very little during the eight-year period indeed barely keeping ahead of the inflation rate, which means that relative to all other costs the cost of tuition in FY 1979 was approximately the same (only 4% higher) than in FY 1971. In analyzing the changes in enrollment during these past eight years in the public community colleges, a number of other factors seem to have had a much greater impact on these changes in enrollments than did tuition and fees. For example, the high unemployment levels during the FY 1976 and FY 1977 had a very dramatic impact on increasing community college enrollments at that time. Also, the increase in the number of high school graduates until FY 1979 had an impact on the increased enrollments experienced in the early 1970's. These are only a few of the many other factors which may have had a much greater impact on changes in student enrollment during the past eight years than changes in community college tuition and fee changes.

As a result of this analysis, historical data about each public community college district's tuition and fee charges and changes in student enrollment were compiled in a form which will enable the analysis of the relationship between changes in student enrollments and changes in student tuition and fee charges to be conducted on a periodic basis in the future.

Since the 1980's will be a period of increased competition for the traditional college age students (those 18-24 years of age), tuition and fee charges may become a critical factor which may influence student enrollments. Hence, analyzing tuition and fee levels in comparison to tuition and fee levels of competing institutions will be critical during this period. It is also recommended that this analysis be repeated every three to five years to see if any significant changes have occurred during this time.

TABLE I: COMPARISON OF HEADCOUNT ENROLLMENT AND STUDENT TUITION AND FEE CHANGES FY 1971 TO FY 1975 AND FY 1975 TO FY 1979 AND FY 1971 TO FY 1979

	Enrollment			% Change in Enrollment			Tuition & Fees (Actual)			% Change in Tuition & Fees (Actual)		
	FY71	FY75	FY79	FY71 to FY75	FY75 to FY79	FY71 to FY79	FY71	FY75	FY79	FY71 to FY75	FY75 to FY79	FY71 to FY79
Colleges with Highest Tuition & Fees (Actual) During FY 1979												
Black Hawk	3,716	7,428	7,523	+ 99.9%	+ 1.3%	+102.4%	$ 9.00	$13.50	$21.00	+ 50.0%	+ 55.6%	+133.3%
DuPage	8,318	12,384	16,654	+ 48.4%	+34.9%	+100.2%	$10.00	$14.50	$18.00	+ 45.0%	+ 24.1%	+ 80.0%
Thornton	4,807	6,723	8,245	+ 39.3%	+22.6%	+ 70.8%	$ 6.50	$17.50	$17.75	+169.2%	+ 1.4%	+173.1%
Prairie State	3,696	4,418	5,656	+ 19.5%	+28.0%	+ 53.0%	$12.56	$ 4.38	$17.50	+ 14.5%	+ 21.7%	+ 39.3%
Parkland	3,381	5,285	6,673	+ 56.3%	+26.3%	+ 97.4%	$ 9.00	$13.50	$17.00	+ 50.0%	+ 25.9%	+ 88.9%
Colleges with Lowest Tuition & Fees (Actual) During FY 1979												
Illinois Eastern	3,021	5,262	9,769	+ 74.2%	+85.7%	+223.4%	$ 1.98	$ 1.98	$ 4.22	0.0%	+117.5%	+117.5%
Shawnee	422	1,738	2,116	+311.8%	+21.7%	+401.4%	$ .75	$ 6.00	$ 6.00	+700.0%	0.0%	+700.0%
Southeastern	837	1,353	1,806	+ 61.6%	+33.5%	+115.8%	$ 0.00	$ 3.00	$ 7.00	N/A*	+133.3%	N/A*
State Community College	1,625	2,491	1,306	+ 53.3%	-47.6%	- 19.6%	$ 0.00	$ 4.13	$ 7.50	N/A*	+ 81.6%	N/A*
Kaskaskia	1,444	2,239	2,789	+ 55.1%	+24.6%	+ 93.1%	$ 3.70	$ 5.70	$ 9.00	+ 54.1%	+ 57.9%	+143.2%

*Not Applicable

TABLE 2: Measure of Statistical Relationship between the Changes in Student Tuition and Fees in Both Actual and Constant Dollars and the Changes in Student Headcount and FTE Enrollment for Each Illinois Public Community College District for All Years FY 1971 Through FY 1979

Dist.	Comm. College	CORR. $ CHANGE IN T&F(ACTUAL) TO # CHANGE IN HC FY71 TO FY79	CORR. # CHANGE IN T&F (CONSTANT) TO # CHANGE IN HC FY71 TO FY 79	CORR. $ CHANGE IN T&F(ACTUAL) TO # CHANGE IN FTE FY71 TO FY79	CORR. $ CHANGE T&F(CONST.) TO # CHANGE IN FTE FY71 TO FY79	CORR. % CHANGE T&F(ACTUAL) TO % CHANGE IN HC FY71 TO FY79	CORR. % CHANGE T&F(CONST.) TO % CHANGE IN HC FY71 TO FY79	CORR. % CHANGE T&F(ACTUAL) TO % CHANGE IN FTE FY71 TO FY79	CORR. % CHANGE T&F(CONST.) TO % CHANGE IN FTE FY71 TO FY79
501	Kaskaskia	-.52	-.58	-.51	-.46	-.56	-.58	-.42	-.41
502	DuPage	-.37	-.33	-.26	-.22	-.31	-.33	-.20	-.22
503	Black Hawk	-.43	-.43	-.28	-.30	-.26	-.27	-.23	-.26
504	Triton	-.34	-.30	-.21	-.26	-.24	-.24	-.30	-.33
505	Parkland	-.29	-.28	-.04	-.04	-.18	-.20	.06	.01
506	Sauk Valley	.42	.30	.33	.27	.33	.33	.24	.27
507	Danville	-.41	-.40	-.08	-.10	-.35	-.36	-.07	-.12
508	Chicago City	.10	.19	-.26	-.18	.06	.05	.01	.01
509	Elgin	-.29	-.26	-.17	-.12	-.29	-.30	-.15	-.15
510	Thornton	-.28	-.30	-.52	-.52	-.34	-.34	-.50	-.50
511	Rock Valley	.14	.18	.22	.23	.23	.30	.24	.27
512	William R. Harper	-.40	-.37	-.28	-.17	-.23	-.26	-.12	-.09
513	Illinois Valley	-.63	-.70	-.60	-.67	-.66	-.67	-.65	-.67
514	Illinois Central	-.24	-.18	-.30	-.26	-.21	-.17	-.25	-.23
515	Prairie State	-.10	-.10	-.17	-.14	-.11	-.11	-.17	-.16
516	Waubonsee	-.48	-.41	-.63	-.66	-.46	-.44	-.58	-.62
517	Lake Land	-.06	.08	.14	.22	.15	.16	.24	.25
518	Carl Sandburg	-.86	-.80	-.17	-.66	-.81	-.76	-.67	-.63
519	Highland	-.59	-.56	-.59	-.56	-.45	-.47	-.55	-.54
520	Kankakee	-.36	-.31	-.47	-.49	-.28	-.03	-.41	-.44
521	Rend Lake	-.10	-.25	.51	.30	-.34	-.34	-.43	-.43
522	Belleville	-.31	-.39	-.55	-.62	-.53	-.53	-.65	-.67
523	Kishwaukee	-.06	-.06	.05	.05	-.05	-.05	.18	.15
524	Moraine Valley	-.32	-.25	.09	.20	.09	.09	.52	.53
525	Joliet	.31	.25	.36	.35	.29	.30	.34	.33
526	Lincoln Land	.15	.13	.25	.25	.04	.06	.23	.27
527	Morton	-.55	-.54	-.47	-.46	-.50	-.48	-.43	-.42
528	McHenry	-.19	-.16	-.13	-.16	-.26	-.25	-.16	-.18
529	Illinois Eastern	.02	.03	-.28	-.27	-.14	-.13	-.26	-.26
530	John A. Logan	-.81	-.75	-.19	-.13	-.62	-.61	.10	.10
531	Shawnee	.09	.06	.04	.02	.24	.24	-.06	-.07
532	Lake County	-.41	-.41	-.41	-.41	-.42	-.44	-.43	-.45
533	Southeastern	-.35	-.11	.05	-.10	-.44	-.29	.52	.52
534	Spoon River	.39	.33	.58	.50	.28	.23	.55	.49
535	Oakton	-.13	-.08	-.17	-.10	-.25	-.17	-.18	-.08
536	Lewis and Clark	.02	.08	.16	.22	-.09	-.06	-.05	-.02
537	Richland	.65	.63	.71	.71	.34	-.56	.43	-.61
539	John Wood	.33	.14	.43	.17	.00	-.98	.00	-.99
601	SCC, East St. Louis	-.15	-.03	-.12	-.01	-.23	-.16	-.16	-.11

CORR. = Correlation (+1.00 = highest possible positive correlation, -1.00 = highest possible negative correlation)
T&F = tuition and fees
HC = headcount
FTE = full-time equivalent

Illinois Community College Board

TABLE 3

MEASURE OF STATISTICAL RELATIONSHIP BETWEEN THE CHANGES IN STUDENT TUITION AND FEES IN ACTUAL AND CONSTANT DOLLARS AND THE CHANGES IN STUDENT HEADCOUNT AND FTE ENROLLMENT FOR EACH YEAR FROM FY 1972 THROUGH FY 1979 FOR ALL COMMUNITY COLLEGE DISTRICTS

VARIABLES	FY 1972*	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977	FY 1978	FY 1979
Dollar Change in Tuition & Fees (Actual Dollars) to Number Change in Headcount Enrollment	-.21	.11	-.12	.33	-.10	.39	-.14	.13
Dollar Change in Tuition & Fees (Actual Dollars) to Number Change in FTE Enrollment	-.22	.21	-.17	.37	-.06	-.46	.04	.08
Dollar Change in Tuition & Fees (Constant Dollars) to Number Change in Headcount Enrollment	-.19	.09	-.02	.34	-.09	.31	-.15	.13
Dollar Change in Tuition & Fees (Constant Dollars) to Number Change in FTE Enrollment	-.20	.22	-.13	.39	-.04	-.46	.04	.07
Percent Change in Tuition & Fees (Actual Dollars) to Percent Change in Headcount Enrollment	-.01	-.06	-.21	-.20	-.13	-.08	-.21	-.06
Percent Change in Tuition & Fees (Actual Dollars) To Percent Change in FTE Enrollment	-.11	-.04	-.21	.01	-.02	-.06	-.11	.02
Percent Change in Tuition & Fees (Constant Dollars) to Percent Change in Headcount Enrollment	-.01	-.06	-.19	-.16	-.13	-.18	-.22	-.06
Percent Change in Tuition & Fees (Constant Dollars) to Percent Change in FTE Enrollment	-.11	-.03	-.25	.05	-.03	-.16	-.14	.02

* Identifies change from FY 1971 to FY 1972

Illinois Community College Board

Table 4

MEASURE OF STATISTICAL RELATIONSHIP (CORRELATION BY PEARSON R)* BETWEEN STUDENT ENROLLMENT AND TUITION/FEES VARIABLES (FY 1971 TO FY 1979) FOR STATEWIDE ILLINOIS PUBLIC COMMUNITY COLLEGE AVERAGES

VARIABLE #1	VARIABLE #2	PEARSON R
Dollar Change in Tuition & Fees (Actual Dollars)	Number Change in Headcount Enrollment	-.01
Dollar Change in Tuition & Fees (Actual Dollars)	Number Change in FTE Enrollment	-.07
Dollar Change in Tuition & Fees (Constant Dollars)	Number Change in Headcount Enrollment	.01
Dollar Change in Tuition & Fees (Constant Dollars)	Number Change in FTE Enrollment	-.04
Percent Change in Tuition & Fees (Actual Dollars)	Percent Change in Headcount Enrollment	-.04
Percent Change in Tuition & Fees (Actual Dollars)	Percent Change in FTE Enrollment	-.06
Percent Change in Tuition & Fees (Constant Dollars)	Percent Change in Headcount Enrollment	-.05
Percent Change in Tuition & Fees (Constant Dollars)	Percent Change in FTE Enrollment	-.07

* Pearson R Correlation of +1.00 is the strongest positive relationship, R = 0 indicates no relationship and R = -1.00 indicates the strongest negative relationship.

APPENDIX A

Tables 5-8

Comparison of Student Headcount and FTE Enrollments and Student Tuition and Fee Charges (in Actual and Constant Dollars) FY 1971 to FY 1975, FY 1975 to FY 1979 and FY 1971 to FY 1979 for Each Public Community College District in Illinois.

APPENDIX A WAS DELETED DUE TO IRREPRODUCIBILITY